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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,478	11/20/2006	Anders Egholm Hansen	378/9-2272	1732
28147 WILLIAM J. S.	7590 05/11/200 APONE	EXAMINER		
	DOL SAPONE P.C.		PATEL, VISHAL A	
714 COLORADO AVENUE BRIDGE PORT, CT 06605			ART UNIT	PAPER NUMBER
			3676	
			MAIL DATE	DELIVERY MODE
			05/11/2009	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Occurrence	10/597,478	HANSEN, ANDERS EGHOLM				
Office Action Summary	Examiner	Art Unit				
	Vishal Patel	3676				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	<b>J.</b> nely filed the mailing date of this co D (35 U.S.C. § 133).	,			
Status						
1) Responsive to communication(s) filed on						
	- action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the						
closed in accordance with the practice under E	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
· <u> </u>						
4) Claim(s) <u>1-6</u> is/are pending in the application.	un from consideration					
5) Claim(s) is/are allowed.	4a) Of the above claim(s) is/are withdrawn from consideration.					
· · · · · · · · · · · · · · · · · · ·						
	6) Claim(s) 1-6 is/are rejected.					
7) Claim(s) is/are objected to.						
8)☐ Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner	r.					
10) The drawing(s) filed on is/are: a) acce		Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT	O-152.			
Priority under 35 U.S.C. § 119						
<u> </u>	priority and an 25 LLC C S 440(a)	(d) on (f)				
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(a) or (ī).				
a) All b) Some * c) None of:	have been received					
1. Certified copies of the priority documents		an Na				
2. Certified copies of the priority documents			Ota wa			
3. Copies of the certified copies of the prior	•	a in this National	Stage			
application from the International Bureau		_				
* See the attached detailed Office action for a list of	of the certified copies not receive	a.				
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da					
Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:					

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 1 recites the limitation "the face of the bushing" in line 4. There is insufficient antecedent basis for this limitation in the claim.

### Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 2 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Skinner (US. 4,242,164).

Skinner discloses a resilient sleeve (e.g. Figure 4) extending around a shaft (e.g. around 16) and being secured around the shaft (e.g. figures 1 and 4) and optionally also around an exterior of the housing or shield extending around the shaft (e.g. secured around 10, figure 1), a face of a bushing (e.g. bushing face near 32 and portion of 26) extending toward the shaft is provided with ribs, waves (e.g. 35) in about one half of the length of the bushing to seal around the shaft (e.g. figure 4 shows this). The ribs, the waves extend near the inner end of the bushing (e.g. figure 4 shows this). The resilient sleeve is made of a piece of rubber, plastic or elastomeric material.

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# Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Skinner in view of Tsuchimoto et al (US. 4,546,033).

Skinner discloses the invention substantially as claimed above but fails to disclose that the resilient sleeve is formed of HNBR polymer. Hetherington discloses a gasket that is made of fiber composite with polymer that is selected from silicon rubber, fluorosilicone rubbers, NHBR rubber and etc. It would have been obvious to one having ordinary skilled in the art at the time of the invention to have the rubber and/or polymer of Skinner be replaced by NHBR as taught by Helterington, since using one type of material or another type of material is considered to be art equivalent.

7. Claims 3-4 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Skinner and Tsuchimoto et al (US. 4,546,033) as applied to claims above, and further in view of Hetherington (US. 20040024133).

Skinner discloses the invention substantially as claimed above but fails to disclose that the resilient sleeve is formed of HNBR polymer with fibers made of phenols. Tsuchimoto discloses a sealing member made of NBR, NR, SBR or like materials with fibers such as phenol fibers (column 2, lines 14-20). It would have been obvious to one having ordinary skilled in the art at the time of the invention to have the resilient sleeve of Skinner be made of fiber and rubber

combination as taught by Tsuchimoto, to provide heat resistance and durability (column 1, lines 10-15 of Tsuchimoto).

Skinner and Tsuchimoto disclose the invention substantially as claimed above but fail to disclose that the resilient sleeve is made of HNBR polymer. Hetherington discloses a gasket that is made of fiber composite with polymer that is selected from silicon rubber, fluorosilicone rubbers, NHBR rubber and etc. It would have been obvious to one having ordinary skilled in the art at the time of the invention to have the rubber and/or polymer of Skinner and Tsuchimoto be replaced by NHBR as taught by Helterington, since using one type of material or another type of material is considered to be art equivalent.

#### Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Stickel et al, Skinner et al, Brancher et al, Maimstrom et al and Rowe.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vishal Patel whose telephone number is 571-272-7060. The examiner can normally be reached on 6:30am to 8:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer H. Gay can be reached on 571-272-7029. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/V. P./

Primary Examiner, Art Unit 3676

/Vishal Patel/ Primary Examiner, Art Unit 3676